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2 In the claims:

3
4 1 (presently amended) A device, comprising:
5 an input fiber to guide an input optical beam;
6 a reflector having a reflective surface that is
7 partially transmissive to light, said reflector positioned
8 to reflect a part of the input optical beam at said
9 reflective surface as a reflected optical beam and to
10 transmit a part of the input optical beam as a transmitted
11 optical beam;

12 an output fiber positioned to receive and guide the
13 reflected optical beam as an output optical beam;

14 an optical detector positioned to receive the
15 transmitted optical beam and to produce a detector output;
16 and ;

17 a variable optical attenuator positioned in an optical
18 path between said reflective surface and one of said input
19 and said output fibers to attenuate light in response to a
20 control signal;

21 said variable optical attenuator comprising said input
22 fiber and said output fiber both having exposed fiber ends
23 adjacent to each other and to a reflective shutter placed
24 in front of at least one of said input or said output

1 fiber, said reflective shutter supported by a current
2 carrying wire, said wire perpendicular to a magnetic field
3 such that said reflective shutter on said current carrying
4 wire is responsive to the magnetic field produced by said
5 current carrying wire and said magnetic field;
6 said control signal being coupled to the current in
7 said current carrying wire.
8

9 2 (original) The device as in claim 1, wherein said
10 variable optical attenuator is positioned to attenuate the
11 input optical beam incident to said reflective surface, and
12 wherein the detector output indicates a power level of the
13 output optical beam.
14

15 3 (withdrawn) The device as in claim 1, wherein said
16 variable optical attenuator is positioned to attenuate the
17 reflected optical beam, and wherein the detector output
18 indicates a power level of the input optical beam.
19

20 4 (cancelled) The device as in claim 1, wherein said
21 variable optical attenuator is a micro attenuation
22 controllable element.
23

1 5 (withdrawn) The device as in claim 1, wherein said
2 variable optical attenuator attenuates light by scattering
3 light.

4
5 6 (original) The device as in claim 1, wherein said
6 variable optical attenuator attenuates light by reflecting
7 light.

8
9 7 (withdrawn) The device as in claim 1, wherein said
10 variable optical attenuator attenuates light by absorbing
11 light.

12
13 8 (original) The device as in claim 1, further
14 comprising a housing to hold said optical detector, said
15 reflector, said variable optical attenuator, said input and
16 said output fibers as an integrated package.

17
18 9 (original) The device as in claim 8, said housing
19 has a first end to hold said optical detector and said
20 reflector, and a second, opposing end to hold said input
21 and said output fibers.

22
23 10 - 12 (Cancelled)

24

1 13 (amended) A device, comprising:
2 a housing having a first end and a second opposing
3 end;
4 an optical detector engaged to said first end;
5 a collimator lens having a flat end lens facet in said
6 housing to face said optical detector and to transmit a
7 fraction of light to said optical detector;
8 a magnet in said housing to produce a magnetic field;
9 a capillary body being in said housing to hold input
10 and output fibers that exit said housing at said second
11 opposing end and having an end facet facing said collimator
12 lens to expose end facets of said input and output fibers
13 to said collimator lens and to the magnetic field, wherein
14 said collimator is configured and spaced from said end
15 facet of said capillary body to collimate light from one
16 fiber and to focus reflected light by said flat end lens
17 facet to another fiber;
18 a conductive wire movably fixed to said capillary body
19 to have a wire portion across said end ~~faet~~ facet of said
20 capillary body, said wire movable along said end facet when
21 an electric current is supplied to said wire to interact
22 with said magnetic field; and
23 a shutter engaged to said wire portion and movable
24 along with said wire to intercept a beam that is either

1 output by said input fiber or received by said output fiber
2 to attenuate the beam.
3

4 14 (withdrawn) The device as in claim 13, wherein said
5 shutter scatters the beam when intercepting the beam.
6

7 15 (withdrawn) The device as in claim 13, wherein said
8 shutter absorbs the beam when intercepting the beam.
9

10 16 (original) The device as in claim 13, wherein said
11 shutter reflects the beam when intercepting the beam.
12

13 17 (original) The device as in claim 13, further
14 comprising first and second adhesive pads on sides surfaces
15 of said capillary body to bond two parts of said wire to
16 said capillary body as pivot points for motion of said
17 wire.
18

19 18 (original) The device as in claim 17, wherein said
20 adhesive pads are elastic and soft to reduce effects of
21 mechanical shocks and vibrations to said wire and said
22 shutter.
23

1 19 (original) The device as in claim 18, wherein said
2 adhesive pads are made of an epoxy.

3

4 20 (original) The device as in claim 13, further
5 comprising a control unit the controls the electric
6 current in said wire in response to an output of said
7 optical detector.

8

9 21 (original) The device as in claim 13, wherein said
10 collimator lens is a GRIN lens.

11

12 22 (withdrawn) The device as in claim 13, wherein said
13 collimator lens is a C lens.

14

15 23 (original) The device as in claim 13, wherein said
16 flat end lens facet is coated with a reflective coating
17 that is partially transmissive.

18

19 24 (withdrawn) The device as in claim 13, further
20 comprising a partially transmissive mirror engaged to said
21 flat end lens facet.